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PATENT
Attorney Docket No.: 016838-000330US

Assistant Commissioner for Patents
Washington, D.C. 20231

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PATENT & TRADEMARK OFFICE

On Oct 22, 2001

TOWNSEND and TOWNSEND and CREW LLP

By: Connie Larson

THG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Garold M. Muth

Application No.: 09/886,608

Filed: June 21, 2001

For: PUMP SYSTEMS AND METHODS

Art Unit:

**SUPPLEMENTAL PRELIMINARY
AMENDMENT**

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GROUP 300*

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-referenced application, please enter the following amendment.

IN THE CLAIMS:

Please replace the marked-up claims from the previous Preliminary Amendment with the following:

Marked-up Claims Pursuant to 37 CFR §1.121(c)

- 1 1. (Amended) A pumping system comprising:
2 a pump barrel that is adapted to be placed into a well casing;
3 a plunger reciprocatably positioned within the pump barrel, wherein the plunger
4 has an open top end with a sharpened edge, a bottom end, and a traveling valve at the bottom
5 end;